VALUE ENGINEERING CHANGE PROPOSAL MISSOURI DEPARTMENT OF TRANSPORTATION

Conceptual Proposal	Final Proposal		Date 07/17/09
Contract ID 090626-601		Job No. <u>J6I183</u>	80B
County St. Louis	I-270	Original Bid Cos	t \$34,815,241.53
Contractor Fred Weber, In	nc.	By Brian J. C	Carlson
Designed By Fred Weber, In	1c.	Phone (314) 7	92-6784
VECP# <u>09-64</u> (to be	completed by C.O.)	VECP Or	PDVECP [
traffic while the existin at a time in order to sati was mentioned that lear especially since rehabil	ry plans require constructi g structure is demolished a sfy the proposed Divergin ving the existing bridge ov	on of a temporary brand a new bridge over g Diamond Interchan er Dorsett Road in pl completed in 2004, br	idge to handle SB I-270 Dorsett Road is re-built half ge (DDI) configuration. It ace was initially considered at the DDI as it was designed
2. Estimate of reduction in co	nstruction costs. \$3,	000,000.00	· · · · · · · · · · · · · · · · · · ·
maintenance repairs sho some additional repairs	money for the rehabilitation of the an issue for sor to help extend the life of the look similar to the original	ne time. However, FV he bridge, if necessar ly proposed A7659 b	y. Aesthetic improvements ridge.
	07/20	1/09	
	(dat		
5. Deadline for issuing a chan contract completion time of	-	num cost reduction,	noting the effect of
08/07/09		n order to avoid mate g the construction scl	erial price increases and nedule.
(date)		(effect)	
i. Dates of any previous or co	N/A (date and/o	<u> </u>	JUL 17 2009

Additional Comments:

Distribution:

By utilizing the existing bridge structure, the investment from the recent rehabilitation will not be wasted and the \$3,000,000.00 savings from this VEP can be utilized on other maintenance or construction projects. Additionally, "green credits" should be considered for utilization of the existing bridge when total replacement is not absolutely necessary. (Continued on attached page)

** Portion Below This Line To Be Filled Out by MoDOT **				
Comme	nts:	Submitted By Resident Engineer	Date	
Commer	nts:			
Re	pproval ecommended ejection	District Engineer	Date	
	ecommended	Diametric Engineery		
Ar	oproval ecommended			
┌┐ Re	jection commended	Federal Highway Administration Required for FHWA Full Oversight Projects	Date	
Commen				
	proval ection	State Construction and Materials Engineer	Date	

Resident Engineer, Project Manager, District Construction & Materials Engineer, State Construction & Materials Engineer, FHWA

Value Engineering Administrator - MoDOT, P. O. Box 270, Jefferson City, MO 65102

·Additional Comments:

** Portion Below This Line To Be Filled Out by MoDOT **

Comments: REJECTED: This concept was considered during scoping and again by a Value Engineering study during design. It was rejected both times for numerous reasons, including reduced intersection angles, reduced shoulder widths and a reduction in traffic performance. As a courtesy to the contractor, this concept was floated once more with the funding partners rather than facing immediate rejection. The partners unanimously rejected the concept.
Approval Recommended Rejection Recommended Comments:
Approval Recommended Rejection Recommended Comments:
Rejection Recommended Comments: Approval
Rejection Recommended Comments: Approval
Recommended Comments:
Approval
Approval
Rejection Federal Highway Administration Date Recommended Required for FHWA Full Oversight Projects
Comments: I agree that this VE should be rejected on the basis of idea being previously considered and found unacceptable, and because other partners in the project agree that this VE is not appropriate for this project. Denis Glascock 8/17/2009
Approval Approval 8-18-09
X Rejection State Construction and Materials Engineer Date

Resident Engineer, Project Manager, District Construction & Materials Engineer, State Construction & Materials Engineer, FHWA Value Engineering Administrator – MoDOT, P. O. Box 270, Jefferson City, MO 65102 Distribution:

Missouri Department of Transportation



I-270, Dorsett-Page Team 2620 Adie Road Maryland Heights, MO 63043 (314) 877-2770 Fax (314) 877-2772 Toll free 1-888 ASK MoDOT

Lee Hillner, P.E., Project Director Niall Jansson, P.E., Deputy Director

To:

Matt Budd-cm6

CC:

Travis Koestner-cm

Jim Smith-de

From:

Niall Jansson MAL

Deputy Director / RE - Dorsett/Page

Date:

August 11, 2009

Subject: Rejection Recommendation - VE No. 1 (Dorsett)

Job No.: J6I1830B

Route I-270 – St. Louis County Contract ID: 090626-601

Attached please find a copy of Form C-104, submitted by Fred Weber Inc., on the above noted project. The proposal, henceforth known as Value Engineering Proposal No. 1, was to utilize the existing bridge carrying I-270 traffic over Dorsett Road rather than replace it. This is not a new concept. It was considered during the original scoping but rejected for numerous reasons. If the existing bridge were used, the diverging angles would fall below the 40-degree minimum MoDOT committed to FHWA. shoulder width would be lost. Incorporating the existing pier columns into the travelled way and lane configuration introduces clear zone hazards and sight distance concerns. Finally, there was a reduction in overall traffic performance.

This concept was subsequently revisited during a Design Value Engineering Study and again rejected for the same reasons.

The third time this idea came up was when Fred Weber submitted it as VE No. 1. Since MoDOT has three other funding partners with significant stakes in the project, we agreed to poll the partners to see if there was interest in visiting the engineering concerns a third time. The funding partners unanimously rejected the VE Proposal favoring the original design.

We strongly recommend that Value Engineering Concept No. 1 be rejected. If you have any questions, please call me at (314) 877-2770.

[&]quot;Our mission is to provide a world-class transportation experience that delights our customers and promotes a prosperous Missouri."

City of MARYLAND HEIGHTS



11911 Dorsett Road Maryland Heights, MO 63043-2597 t: 314.291.6550 f: 314.291.7457 www.marylandheights.com

August 7, 2009

Missouri Department of Transportation Attn: Mr. Lee Hillner, P.E. 1590 Woodlake Drive Chesterfield, MO 63017-5712

Re: I-270 @ Dorsett Interchange Project Value Engineering Proposal dated 7/24/09 Use of Existing Bridge in Place and Lane Modifications

Dear Lee:

We at the City of Maryland Heights have appreciated the opportunity to be involved in the review of this value engineering proposal. While we realize acceptance of this proposal would create a significant cost savings for the project, we feel it is also important to weigh the value of savings versus the safety, functionality, and overall integrity of the project.

Concerns in regards to use of the existing bridge in place with the associated traffic barrier modifications along Dorsett Road and the structural integrity over time of using the existing bridge in place opposed to a complete reconstruction were factors that played a major role in our consideration of this proposal.

While we are always looking for ways to improve our projects, we will be unable to support this value engineering proposal at this time.

Should you have any questions, please do not hesitate to contact me at 314-738-2257 or mmcgrath@marylandheights.com.

Sincerely,

Matt McGrath, P.E.

Nutt Wort

Project Manager

Cc: Bryan Pearl, P.E. - Director of Public Works

Cliff Baber, P.E. - Construction Manager

Garland L Hillner /D6/MODOT 08/11/2009 08:54 AM

To Matthew N Jansson/D6/MODOT@MODO

CC

bcc

Subject Fw: Log #62065 270 @ Dorsett - Value Engineering Submittal (County Response)

--- Forwarded by Garland L Hillner/D6/MODOT on 08/11/2009 08:53 AM ----



"Heck, Gus" <GHeck@stlouisco.com> 08/03/2009 03:38 PM

- To "Lee.Hillner@modot.mo.gov" <Lee.Hillner@modot.mo.gov>
- cc "Bardot, Michael" <MBardot@stlouisco.com>. "Leon Streeter, Stephanie" <SLeonStreeter@stlouisco.com>, "Hodges, Sheryl" <SHodges@stlouisco.com>, "Halter, Scott" <SHalter@stlouisco.com>, "Dam, Erik" <EDam@stlouisco.com>

Subject FW: Log #62065 270 @ Dorsett - Value Engineering Submittal

Lee

Our Department has reviewed the contractor's Value Engineering proposal and at this time, we cannot support it because we are concerned that leaving the existing bridge in place will degrade both the level of service and safety at the interchange. While our Department is always interested in finding cost saving opportunities, we also value safety, mobility and performance as well. If the contractor has information that can prove level of service and safety are not compromised by the alternative, the Department would consider the additional information. Until such time, we do not support the Value Engineering proposal.

If you have any questions please feel free to call me at 314-615-8563 or Gheck@stlouisco.com .

August (Gus) Heck, Jr., P.E. North and West Area Engineer Saint Louis County Department of Highways and Traffic Planning Division 121 South Meramec Avenue, 8th Floor Saint Louis, Missouri 63105 314-615-8563 Fax 314-615-8156

EDWARD JONES

Garland L Hillner /D6/MODOT 08/11/2009 08:53 AM

To Matthew N Jansson/D6/MODOT@MODOT VE#1

bcc

Subject Fw: 270 @ Dorsett - Value Engineering Submittal (EDJ Response)

Forwarded by Garland L Hillner/D6/MODOT on 08/11/2009 08:53 AM ----



"Foltz Gay, Jodi L " <jodi.gay@edwardjones.com

To <Lee.Hillner@modot.mo.gov>

CC

08/04/2009 01:04 PM

Subject FW: 270 @ Dorsett - Value Engineering Submittal

Based upon our conversation, I concur with my initial thoughts - I prefer not to accept a VE that could reduce traffic capacity - thanks.

In addition, to confirm, John Nations will no longer be representing Edward Jones during the course of the project implementation. We will reserve his participation to appropriate legal matters.

If you are not the intended recipient of this message (including attachments), or if you have received this message in error, immediately notify us and delete it and any attachments. If you no longer wish to receive e-mail from Edward Jones, please send this request to messages@edwardjones.com. You must include the e-mail address that you wish not to receive e-mail communications. For important additional information related to this e-mail, visit www.edwardjones.com/US email disclosure

----Original Message----

From: Foltz Gay, Jodi L

Sent: Monday, July 27, 2009 5:53 PM To: 'Lee.Hillner@modot.mo.gov' Cc: mmcgrath@MarylandHeights.com

Subject: RE: 270 @ Dorsett - Value Engineering Submittal

Lee,

Perhaps we could arrange a quick conference call? While I support a cost reduction, I'm concerned about accepting a VE that could reduce traffic performance - especially with consideration to our long term plans. Please let me know when you would be available for 15 minutes - thanks. Jodi

----Original Message----

From: Lee.Hillner@modot.mo.gov [mailto:Lee.Hillner@modot.mo.gov]

Sent: Friday, July 24, 2009 1:35 PM

To: mmcgrath@MarylandHeights.com; jnations@ArmstrongTeasdale.com;

VALUE ENGINEERING CHECK SHEET

TYPE OF WORK

(Check one that applies)

- > Bridge/Structure/Footings
- □ Drainage Structures (RCP, RCB, CMP's, ect.)
- □ TCP/MOT
- □ Paving (PCCP, ect.)
- □ Grading/MSE Walls
- □ Signal/Lighting/ITS
- □ Misc. Base eliminated

SUMMARY OF PROPOSAL

(If needed, condense summary to a couple of lines)

This VE involves the use and modification of an existing bridge where the plans call for replacement of the structure.	

SCANNING	OF	DOCUMENT
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If the proposal is large, please mark or make note, which pages need to be scanned into the database. there are special instructions, make note of them here.	If